

RESULT 2

JC5895 killer cell inhibitory receptor p91B precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 05-Nov-1999
C;Accession: JC5895
R;Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya, R.; Biocellen, 123, 358-368, 1998
A;Title: Genomic structures and chromosomal location of p91, a novel murine regulatory protein
A;Reference number: JC5894; MUID:98218758; PMID:9538215
A;Status: nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 1-841 <YAM>
A;Cross-references:
A;Residues: 1-680 <YAM>
A;Cross-references:
A;Genetics:
C;Comment: This protein function as inhibitory cell-surface molecule against cell activation
A;Map position: 7
C;Genetics:
F,1-23/Domain: signal sequence #status predicted <SIG>
F,24-118,119-220,221-315,316-418,419-517,518-618/Domain: extracellular Ig-like #status F
F,675-680/Domain: cytoplasmic #status predicted <CYT>
Query Match 39.3%; Score 1080.5; DB 2; Length 680;
Best Local Similarity 49.9%; Pred. No. 1.4e-68;
Matches 230; Conservative 63; Mismatches 151; Indels 17; Gaps 3;
23 ASHLKPPTIWAERGGSVITIQLGSPVTLRQCGSLOREAEVILYRE-NKSAWRRIQEPGNGQ 81
220 SGNLQKPTIKAPGSVITSKRANTWQGNLDAEVYFLHNEKSOKTQSTQTLQQPGNGK 279
82 FPLPSITMEHAGRYHCYQYSHHNSSESDPPLWITG-AKSPKTSLALPSPVVTLGNN 139
280 FPLPSITQHQAGYRCYQYSSAGWSQSDTLELWVTCYQYAGWSQSDTLELWVTCYQY 139
140 TIQCQVSQAFDGFILCKE---GDEDEHPQRINSHSHARGMSWAIIFVGVPSPRRSYRC 195
340 TMCASDPHYDKFILIKEKDKEPNSLDEHISRSOY---ALFTIGTPPTPHTGFC 395
QY 196 YADDSNPYWSLPSDLELIVPGVSKKPSLSVQGPMVMARGLSITLQCVSDVGYRPFVL 255
Db 396 YGVFKQAPOLWSVPSDVLQGQTLISGLSKKPSLTHQGHILDPGMTLTLQCSDINTDFAL 455
QY 256 YKEGRDFLQPGWQDQAGSQANFTLGPSPSPHGOYRYSYAHNLSEWNSAAPSPLDIL 315
Db 456 HKVGRADIMQHSSQDPTGTSVANTILGVVSSSTGQYRCYGAHNLSSEWNSAASPLDIL 515
QY 316 ITQGFYDRPSLSVQVPTVAFGKNTLICOSRGDEHTFILTEK3AGHPPLRSRSHQAQ 375
Db 516 ITQGPITPLSLSVKNHNTWGETVSLCWSMDSVDTFLSKEGSAQQPLRKSXSHDQQ 575
QY 376 NQAERPMGPPUTSAGHTYRCYSSSNNPILSLPSDPLELWVSSL----- 421
Db 576 SOAEPSMSAVTSHLSGTYRCYGAONSSV:VLLSSASAPVLTVCPIESTTTPPMMSMLP 635
QY 422 GQHQDQDTENLIMGVG-LVLVIGLILFEACH-----SORSQDAAGSEQ-- 463
Db 636 GLH--MYKALIGVSVARLFILFILFILFILRRRHRGKFRKDVOKEKOLQLOSSGAEPI 692
QY 469 QRGQCTLORGGSST 483
Db 693 RKGQLQKRNPAAT 707
RESULT 3

JC5894 killer cell inhibitory receptor p91A precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 17-Mar-1999
C;Accession: JC5894
R;Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya, R.; Biocellen, 123, 358-368, 1998
A;Title: Genomic structures and chromosomal location of p91, a novel murine regulatory protein
A;Reference number: JC5894; MUID:98218758; PMID:9538215
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-841 <YAM>
A;Cross-references:
A;Residues: 1-680 <YAM>
A;Cross-references:
A;Genetics:
C;Comment: This protein function as inhibitory cell-surface molecule against cell activation
A;Map position: 7
C;Genetics:
F,1-23/Domain: signal sequence #status predicted <SIG>
F,24-841/Product: killer cell inhibitory receptor p91A #status predicted <MAT>
F,24-118,119-220,221-315,316-418,419-517,518-618/Domain: extracellular Ig-like #status F
F,675-676/Domain: transmembrane #status predicted <TM>
F,675-676/Domain: cytoplasmic #status predicted <CYT>
Query Match 37.2%; Score 1023.5; DB 2; Length 841;
Best Local Similarity 45.9%; Pred. No. 1.9e-64;
Matches 227; Conservative 73; Mismatches 154; Indels 41; Gaps 9;
23 ASHLKPPTIWAERGGSVITIQLGSPVTLRQCGSLOREAEVILYRE-NKSAWRRIQEPGNGQ 81
220 SGNLQKPTIKAPGSVITSKRANTWQGNLDAEVYFLHNEKSOKTQSTQTLQQPGNGK 279
82 FPLPSITMEHAGRYHCYQYSHHNSSESDPPLWITG-AKSPKTSLALPSPVVTLGNN 139
280 FPLPSITQHQAGYRCYQYSSAGWSQSDTLELWVTCYQYAGWSQSDTLELWVTCYQY 139
140 TIQCQVSQAFDGFILCKE---GDEDEHPQRINSHSHARGMSWAIIFVGVPSPRRSYRC 195
340 TMCASDPHYDKFILIKEKDKEPNSLDEHISRSOY---ALFTIGTPPTPHTGFC 395
QY 196 YADDSNPYWSLPSDLELIVPGVSKKPSLSVQGPMVMARGLSITLQCVSDVGYRPFVL 255
Db 396 YGVFKQAPOLWSVPSDVLQGQTLISGLSKKPSLTHQGHILDPGMTLTLQCSDINTDFAL 455
QY 256 YKEGRDFLQPGWQDQAGSQANFTLGPSPSPHGOYRYSYAHNLSEWNSAAPSPLDIL 315
Db 456 HKVGRADIMQHSSQDPTGTSVANTILGVVSSSTGQYRCYGAHNLSSEWNSAASPLDIL 515
QY 316 ITQGFYDRPSLSVQVPTVAFGKNTLICOSRGDEHTFILTEK3AGHPPLRSRSHQAQ 375
Db 516 ITQGPITPLSLSVKNHNTWGETVSLCWSMDSVDTFLSKEGSAQQPLRKSXSHDQQ 575
QY 376 NQAERPMGPPUTSAGHTYRCYSSSNNPILSLPSDPLELWVSSL----- 421
Db 576 SOAEPSMSAVTSHLSGTYRCYGAONSSV:VLLSSASAPVLTVCPIESTTTPPMMSMLP 635
QY 422 GQHQDQDTENLIMGVG-LVLVIGLILFEACH-----SORSQDAAGSEQ-- 463
Db 636 GLH--MYKALIGVSVARLFILFILFILFILRRRHRGKFRKDVOKEKOLQLOSSGAEPI 692
QY 469 QRGQCTLORGGSST 483
Db 693 RKGQLQKRNPAAT 707
RESULT 4

JC5896 killer cell inhibitory receptor p91C precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 05-Nov-1999
C;Accession: JC5896
R;Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya, R.; Biocellen, 123, 358-368, 1998
A;Title: Genomic structures and chromosomal location of p91, a novel murine regulatory protein
A;Reference number: JC5894; MUID:98218758; PMID:9538215
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-680 <YAM>
A;Cross-references: GB:AF041036; NID:92791693; PID:AA969281; PID:92791694

PN WO9849017-A1.
 XX
 PD 29-OCT-1998.
 XX
 PR 23-APR-1998; 98WO-US008244.
 XX
 PR 24-APR-1997; 97US-00842248.
 XX
 PA (IMMV) IMMUNEX CORP.
 PI Cosman DJ;
 XX
 DR WPI; 1998-609990/51.
 DR N-PSDB; AAV69332.
 XX
 PT Leukocyte immunoglobulin-like receptor, LIR, polypeptides - useful, e.g. for treating autoimmune diseases or disease states associated with suppressed immune function.
 XX
 PS Claim 4; Page 64-65; 112pp; English.
 XX
 CC This sequence represents a novel leukocyte immunoglobulin-like receptor (LIR) polypeptide LIR-prob25. This sequence can be administered therapeutically to treat disorders associated with insufficient/defective amounts of LIR polypeptide. LIR-Fc γ 2 and certain other LIR family members contain cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs), whilst other LIR family members lack ITIMs. By analogy with the structure and function of known MHC Class I receptor molecules, LIRs having ITIMs are inhibitory receptors mediating negative signalling, whilst those lacking ITIMs are activatory receptors. Failure of a receptor that mediates negative signalling could result in autoimmune diseases, whilst failure of a receptor mediating activatory signalling could result in suppressed immune function. They are also useful to produce probes for detecting LIR nucleic acids or isolating LIR DNA from other species
 XX
 SQ Sequence 439 AA:
 Query Match 63.7%; Score 1754; DB 2; Length 439;
 Best Local Similarity 81.3%; Pred. No. 5.4e-126;
 Matches 343; Conservative 18; Mismatches 59; Indels 2; Gaps 2;
 CC
 QY 1 MTPILTVLICLGSLGPRTHVQAGHLRPTIMAPGSVILQSPVTRQCGSLQAEYHL 60
 1 MTPILTVLICLGSLDPRTHVQAGLPKPLKPTIWAEPGSVITQSPVTRQCGSLQAEYHL 60
 61 YRENKASWRRI-QEPGKNGQPIPSITWEHAGRYQYQYSHHNS-SEYSPLBLVVTG 118
 61 YREKKTAALWTRIPOELVKKGQPILSTWEHAGRYCIGYTSAGSSESDPBLVVTG 118
 61 YREKKTAALWTRIPOELVKKGQPILSTWEHAGRYCIGYTSAGSSESDPBLVVTG 120
 119 AYSKPTLSALPSRVUTLGGNTVILQCVSVAQFDGFLICKEGEDEHPOCLNSHARGWSWA 178
 121 AYSKPTLSALPSPVUTSVTGSVNIQCDSQVAFDGFILCKEGEDEHPOCLNSHARGSSRA 180
 QY 179 IFSVGPVSPRSRWSYRCYAYDSNSPYWMSLPSDLELLVPGVSKPSLSVQGPWMAE 238
 181 IFSVGPVSPRSRWSYRCYGDYSDRASPVYWSLPSDLSLGLVPGVSKPSLSVQGPWVAPE 240
 QY 239 SLTQCVSDVGYDRFLVYKEGERDFLORPGWQPOAGLSQANFTLGPVSPSGQYRCYSA 298
 241 KLTFOQCSDDAIGDTRFLVYKEGERDFLORPGWQPOAGLSQANFTLGPVSPSGQYRCYSA 298
 DB 241 KLTFOQCSDDAIGDTRFLVYKEGERDFLORPGWQPOAGLSQANFTLGPVSPSGQYRCYSA 300
 QY 299 HNLSENSAAPSPLDILITGQYDRPSLQSVQAFDGFILCKEGEDEHPOCLNSHARGWSWA 358
 301 YNLSENSAAPSPLDILITGQYDRPSLQSVQAFDGFILCKEGEDEHPOCLNSHARGSSRA 360
 QY 359 GAGHPPLRLRSHQAOONQABERMGPTISANGTYRYSSTSSNPVILSLSRSPDLWVS 418
 361 GAGDSPRLKSKRQSHKYOAEFPMSPVTSAGTGYRCYGSLSSNPYLTHSDPBLVVS 420
 QY 419 AS 420
 DB 421 GA 422

RESULT 14
 ID AAW53464
 XX
 AC AAW53464
 XX
 DT 17-JUL-1998 (first entry)
 XX
 DE Human gp49 HM43 polypeptide.
 XX
 KW Human; gp49; HM1B; HM3; immunoglobulin; immune response; mast cell; bone marrow; cell-surface member; Fc ϵ RI.
 XX
 OS Homo sapiens.
 PN WO9809638-A1.
 XX
 PD 12-MAR-1998.
 XX
 PR 05-SEP-1997; 97WO-US015586.
 XX
 PA (BGH) BRIGHAM & WOMENS HOSPITAL.
 PI Katz HR, Aym JP, Castells MC, Austen KF;
 XX
 DR WPI; 1998-193318/17.
 DR N-PSDB; AAV23274.
 XX
 Cell-surface member of immunoglobulin super-family, human gp49 - useful to treat undesired immune responses, especially mast cell-related diseases.
 XX
 PS Claim 5; Fig 2A-B; 62pp; English.
 XX
 CC The present sequence represents human gp49 polypeptide HM43. The present invention also describes: (1) a fusion polypeptide comprising a human gp49 component and Fc ϵ RI or a detectable marker; (2) a recombinant nucleic acid encoding human gp49 or gp49-Fc ϵ RI fusion as above; (3) a cell or vector comprising the recombinant nucleic acid as in (2); and (4) an antibody which selectively binds to gp49. Mammalian gp49 or its related DNA can be used to treat an undesired immune response, especially a mast cell-related disease
 XX
 SQ Sequence 439 AA:
 Query Match 63.7%; Score 1754; DB 2; Length 439;
 Best Local Similarity 81.3%; Pred. No. 5.4e-126;
 Matches 343; Conservative 18; Mismatches 59; Indels 2; Gaps 2;
 CC
 QY 1 MTPILTVLICLGSLGPRTHVQAGHLRPTIMAPGSVILQSPVTRQCGSLQAEYHL 60
 1 MTSILTVLICLGSLDPRTHVQAGLPKPLKPTIWAEPGSVITQSPVTRQCGSLQAEYHL 60
 61 YRENKASWRRI-QEPGKNGQPIPSITWEHAGRYQYQYSHHNS-SEYSPLBLVVTG 118
 61 YREKKTAALWTRIPOELVKKGQPILSTWEHAGRYCIGYTSAGSSESDPBLVVTG 118
 61 YREKKTAALWTRIPOELVKKGQPILSTWEHAGRYCIGYTSAGSSESDPBLVVTG 120
 119 AYSKPTLSALPSRVUTLGGNTVILQCVSVAQFDGFLICKEGEDEHPOCLNSHARGWSWA 178
 121 AYSKPTLSALPSPVUTSVTGSVNIQCDSQVAFDGFILCKEGEDEHPOCLNSHARGSSRA 180
 QY 179 IFSVGPVSPRSRWSYRCYAYDSNSPYWMSLPSDLELLVPGVSKPSLSVQGPWMAE 238
 181 IFSVGPVSPRSRWSYRCYGDYSDRASPVYWSLPSDLSLGLVPGVSKPSLSVQGPWVAPE 240
 QY 239 SLTQCVSDVGYDRFLVYKEGERDFLORPGWQPOAGLSQANFTLGPVSPSGQYRCYSA 298
 241 KLTFOQCSDDAIGDTRFLVYKEGERDFLORPGWQPOAGLSQANFTLGPVSPSGQYRCYSA 300